



KL-3

Media Station

User Manual | English

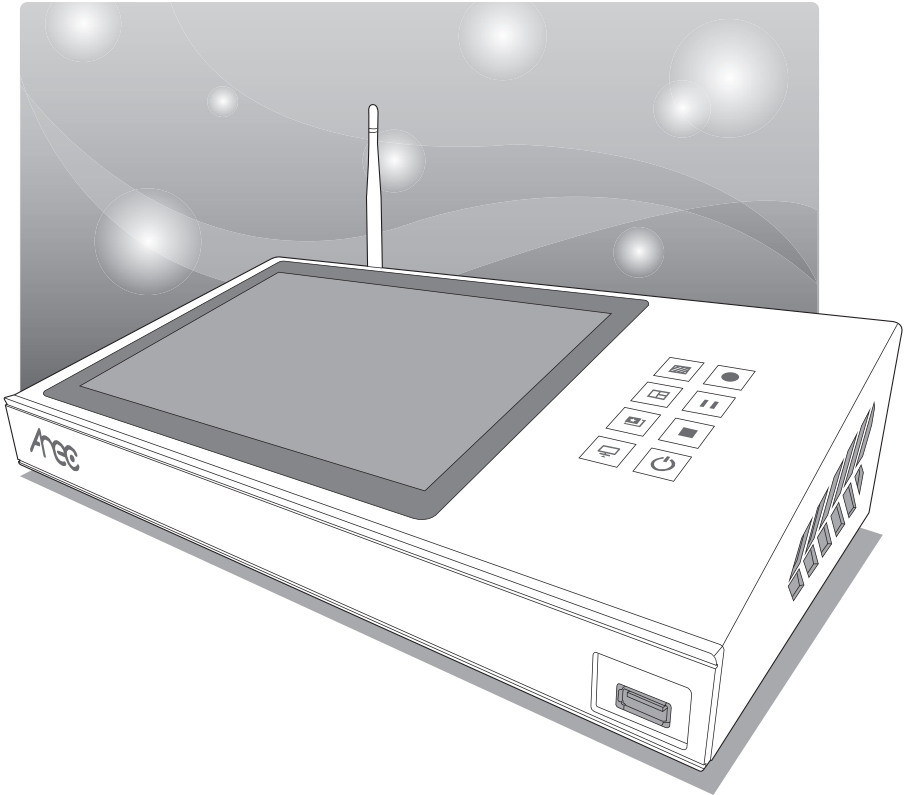


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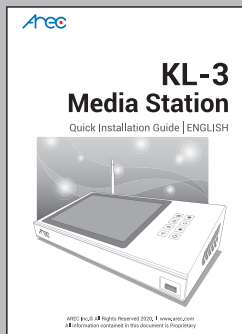
Introduction

Featuring a compact and stand-alone design, AREC KL-3 Media Station consists of diverse features and functionality, including multi-signals capturing, recording synchronously, codec, streaming online, live broadcasting, and web-based monitor page, providing complete presentation or lecture capture solution.

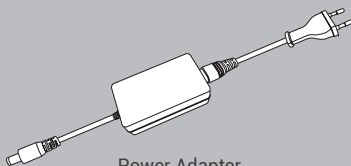
Specifications

Product Name	Media Station
Model Name	KL-3
Dimension	354mm(L) x 188.2mm(W) x 91.35mm(H)
Weight	2650g
Power Requirement	12V/3A
Power Consumption (Max.)	36W (Max.)
Operating Temperature / Humidity	0°C ~ 40°C / 90%
Maximum normal load description	Insert 1 IP CAM to LAN port and insert 2 video signals (either HDMI or VGA input). Using external USB flash to record the transcoded video/audio. And output the transcoded video/audio to both HDMI and VGA port.

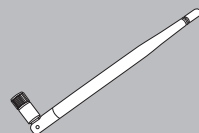
Package Contents



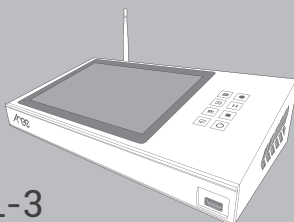
Quick Installation Guide



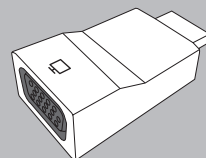
Power Adapter



Wireless Mic. Antenna



KL-3



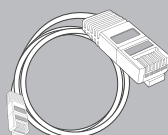
HDMI-to-VGA converter



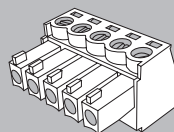
VGA Line



HDMI Line



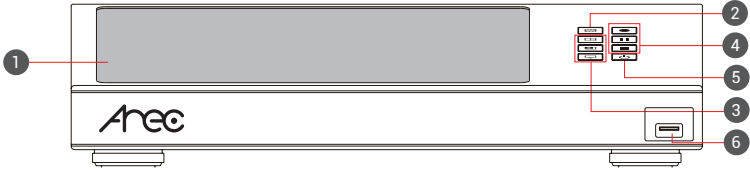
RJ-45 Line



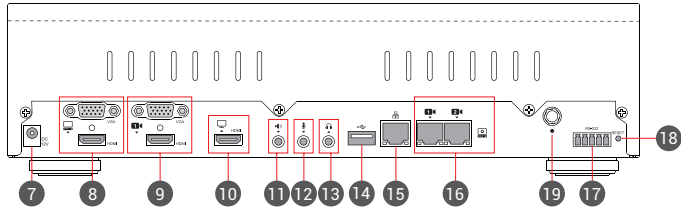
Terminal Block




Product Appearance

Front



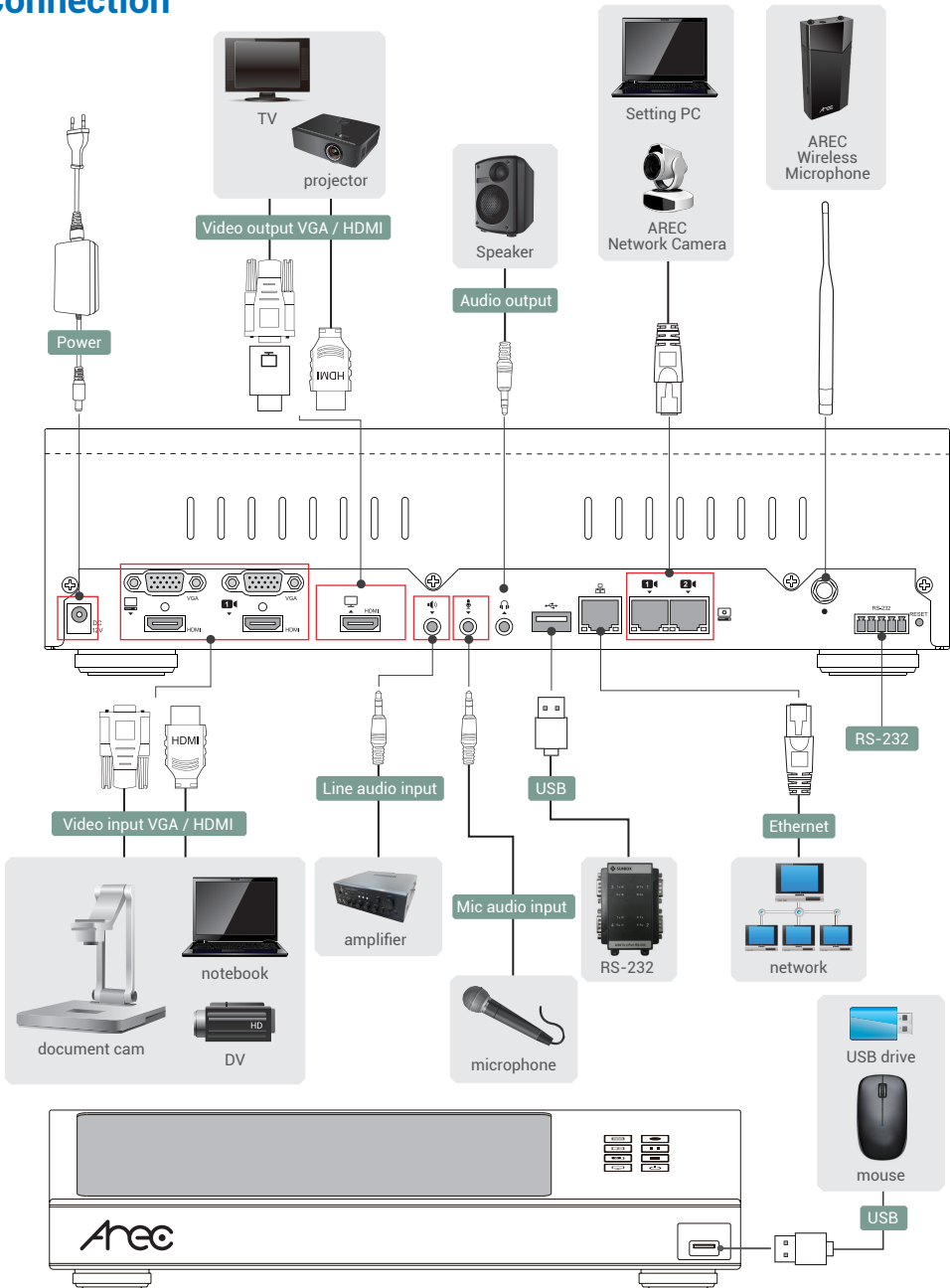
Back





No.	Name	Brief introduction
1	10.1" LCD Display	Preview mixed recording
2	Background function key	Select preference background
3	Layout function keys	Select preference layout
4	Record function keys	Control the Record, Pause, Stop function
5	Power	Power on/off the device
6	Front USB port	1.Export files to external USB storage 2.Support USB mouse control
7	Power port	12V/ 3A
8	Video input	VGA/ HDMI input source for PC []
9	Video input	VGA/ HDMI input source for camera []
10	Video output	1.Loop through from input 1 [] 2.Use HDMI-to-VGA converter when the display device only has VGA input port
11	Audio input	Line audio input
12	Audio input	Mic audio input
13	Audio output	Line audio output
14	Back USB port	1.USB interface for camera control over RS-232 2.Extend storage with USB HDD(external power supply recommended)
15	Network port	RJ-45 Ethernet connector for network connection
16	Network camera input 1 & 2	1.RJ-45 Ethernet connector for network camera input source 2.Connected to PC/NB for device configuration and control
17	RS-232	Phoenix type connector for control over RS-232
18	Reset button	Restore the device to factory default
19	Antenna port for Microphone	Connected to antenna for wireless microphone



NOTE: The KL-3 can detect and record to USB storage devices using FAT32, NTFS file systems.

Connection



Front Panel Buttons and Indicators

Button	Brief introduction
 <p>Background / Layout / Overlay</p>	Change Background / Layout / Overlay cycling.
 <p>Display</p>	Switch image sources to monitor individual image inputs.


Button	Display method of indicator	Product status
 <p>Record / Pause / Stop</p>	Record button glows red continuously.	Recording in progress.
	Record button flashes red rapidly.	Recording is paused.
	Record button flashes red slowly.	Recording is being finalized.
 <p>Power</p>	Solid red.	Device is powered, yet not booted up.
	Green and red light flash alternately.	Device is booting up.
	Solid green.	Boot up completed.
	Fast flashing red.	Device is shutting down.
	Fast flashing green.	Firmware updating.
	Slow flashing red.	Fan is abnormal. Storage is abnormal.

External Control via USB Keypad

Insert the keyboard into the Media Station's USB hole, let USB numeric keypad as function keys to control the Media Station.




Button	Brief introduction	Button	Brief introduction
1	Theme 1	Backspace	All input volume mute/unmute
2	Theme 2	-	All input volume down
3	Theme 3	+	All input volume up
4	Theme 4	Enter	Record
5	Theme 5	ESC	Power off
6	Theme 6	Z • z	Change Background
7	Theme 7	X • x	Change Layout
8	Theme 8	C • c	Change Overlay
9	Theme 9	V • v	Live streaming on/off
/	Pause	B • b	Playback last record video
*	Stop	A • a	All output volume up
0	Change Display	S • s	All output volume down
.	Snapshot	D • d	All output volume mute/unmute
Caps Lock	Recording Start / Stop	G • g	Local director control panel on/off

Getting start


Connect PC to the setting port of Media Station with standard network cable. Open up the browser, and input 192.168.11.254 in the browser page. Log in Administrator  with default username admin and password admin, then entering the KL-3 system Administrator webpages.

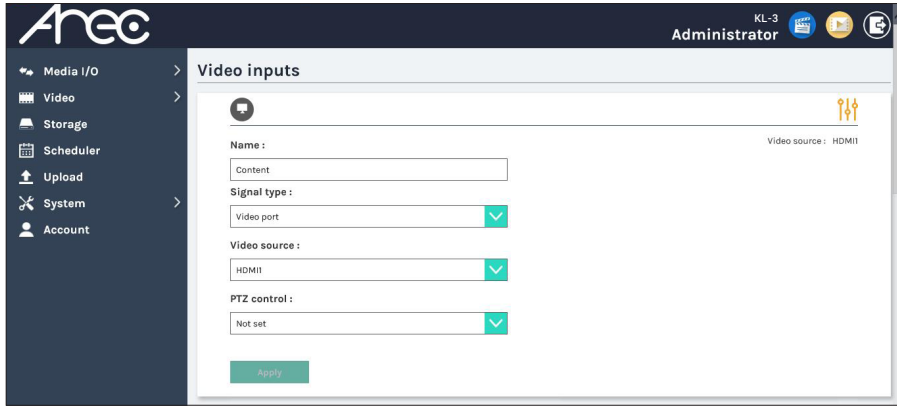
Overview of the Web Interface

KL-3 web interface has three user types, which are described in detail in the following chapters :

 Online Director	For quick start recording, log in Online director from the initial login page with default username director and password director. This user also has access to Video Manager web pages. Log in with Administrator account, can switch to Administrator page.
 Administrator	To setup the device, log in Administrator with default username admin and password admin, then entering System Administrator webpages. The admin account provides the user all three type of privileges.
Mini Controller	For mobile device quick start recording, log in Mini Controller from the initial login page with Administrator or Online Director account.
 Video Manager	If you only need to access to the recordings, log in Video Manager with default username video and password video. Log in with Administrator account, can switch to Administrator page.

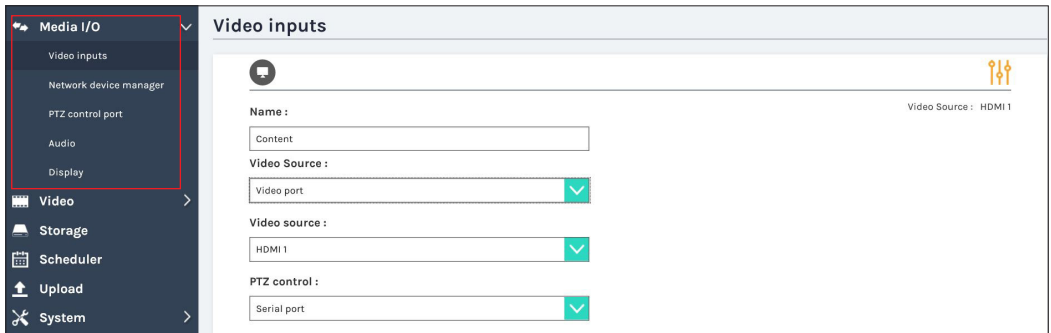
Chapter 1 Administrator

The Administrator web pages provide a system administration interface of the KL-3: it can perform Media I/O, Video, Storage, Scheduler, Account, Upload, System settings and confirm operations. The **Media I/O** settings make sure each input source are properly connected, and adjust the audio volume. The **Video** setting pages configure the recording, streaming, and other functions which define the content being recorded. **System** are pages contain basic settings and information of this device. Click  icon can switch to Video Manager page.



1.1 Media I/O

The pages within **Media I/O** include the following :



Video inputs	Select the signal type, video source and PTZ control method for each input.
Network device manager	List out all the connected network cameras and Auto-Tracking Mount.
PTZ control port	Set KL-3 back USB-to-RS-232 serial port to drive PTZ cameras.
Audio	Adjust the volume and select the audio input source.
Display	Set the KL-3 on screen display language, video output settings and color adjustment.

1.1.1 Video inputs

The KL-3 is capable to process up to four video inputs. The name of these inputs are user configurable; by default are Content, Cam 1 and Cam 2.

The image shows three screenshots of the video input configuration interface. Each screenshot displays a form with various fields and a green 'Apply' button at the bottom.

- Content:** Fields include Name (Content), Video Source (Video port), Video source (HDMI 1), PTZ control (Serial port), and Serial port selection (Port 1).
- Cam 1:** Fields include Name (Cam 1), Video Source (Network Camera), IP address (10.2.50.112(CI-200)), and PTZ control (Over IP).
- Cam 2:** Fields include Name (Cam 2), Video Source (Encoder), Protocol (RTSP), Primary URL (192.168.11.201/h264), Secondary URL, and PTZ control (Serial port).

1.1.1.1 Content / Cam 1 / Cam 2


- **Video Source** can be choose from **Network Camera**, **Encoder** or **Video port**. The last option is available only for the first two video inputs.

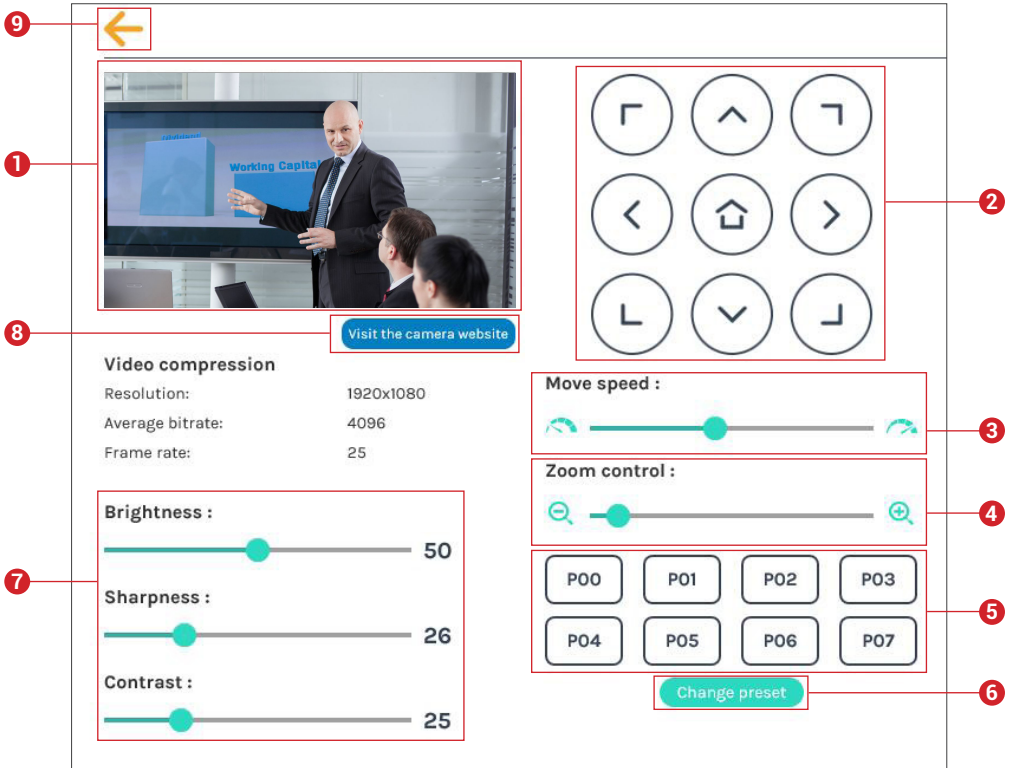
Video port	Select Video source: The KL-3 provides VGA and HDMI input options for video port. If only one of those is connected, the system would detect and automatically switch to source of signal. If both options are connected, select one in between.
Network Camera	Select IP address: Select from the camera ip address drop list of those available. Note: A login authentication with the camera might be required. See Media I/O\ Camera manager for more details.
Encoder	Select Protocol: The available options are RTP, RTSP, or RTMP. Enter the primary and secondary url/port number.


- **PTZ control** : The KL-3 is highly integrated with PTZ cameras and provides two control methods, Over IP or via Serial port.

Serial port	Select this option when the appointed camera uses RS-232 PTZ control protocol. Then complete the Serial port selection from drop list ttyUSB 0~3. See Media I/O\ PTZ control port for more details.
Over IP	The option is available when the specified signal type is a network camera. Select this option if that camera supports networking PTZ control.
Auto-Tracking Mount	Select IP address: Select from the TP-100 ip address drop list of those available. Select Tracking mode: off / Auto-Tracking / Auto-Tracking (pan only), the default is the Auto-Tracking. Note: A login authentication with the TP-100 might be required. See Media I/O\ Network device manager for more details.
VISCA over IP	With VISCA over IP function, you can control the camera using VISCA on a controller equipped with IP communication capabilities via LAN.

1.1.1.2 Advanced configuration

A preview use and further configuration of the video input is provided. After the video input setting is successfully applied, click  to enter the advanced configuration page. In the case of a PTZ camera, the direction control panel, zoom in/out control bar, and up to 8 preset positions are enabled.



1. The video input preview.
2. Direction control panel: Click the arrow buttons to move the camera.
3. Movement speed: Move leftward or rightward to set slower or faster the camera is moving.
4. Zoom in/out: Click the buttons or drag on the control bar.
5. Preset positions: Click the buttons to command that the camera go to the preset position.
6. Change preset: Click the button to modify the preset positions. Select any of the P00~P07, move the camera to the desired position by using the direction control panel or using the zoom in/out control. Click Save button to complete the change or click Cancel button to give it up.
 Note: If you use AREC CI-xxx network camera with TP-100, you can change preset of TP-100's Home.
7. Brightness, sharpness, and contrast: Slide the adjust bar leftward or rightward to change the camera image settings.
8. Visit the camera website: Click this [Visit the camera website](#) button to enter the webcam management web site, input the verification code as prompted.
9. Click  button at upper left corner to return to the last page.

1.1.2 Network device manager

The system automatically scans and lists the network cameras and Auto-Tracking Mount connected to the Media Station once entering the [Network device manager] page. You may click Refresh button to scan again. Click Login button and the login authentication dialog pop out.

Enter the username and password of the camera or Auto-Tracking Mount to complete the authentication. Take AREC network camera for example, enter the default username and password admin/ admin. The status then changes to OK, which indicates it is available for video input selection.

Note : If you fail to find your camera by clicking on "Refresh", please select "Signal type" to "Encoder" in the "Video Inputs" and fill in your camera information.

The screenshot shows the 'Network device manager' interface. On the left is a sidebar with navigation options: Media I/O, Video inputs, Network device manager, PTZ control port, Audio, Display, Video, Storage, Scheduler, Upload, System, and Account. The main content area is titled 'Network device manager' and contains two sections: 'Network cameras' and 'Auto-Tracking Mount'. Each section has a 'Refresh' button and checkboxes for 'LAN' and 'WAN'. Below each section is a table listing devices with columns for Host name, IP address, MAC, Brand, Status, and Connected.

Host name	IP address	MAC	Brand	Status	Connected
CW-210	10.2.50.148	E4-77:D4:00:DB:80	CW-210	OK	OK
CI-403	10.2.50.115	00-D0-89-17-19-E3	CI-403	OK	OK
CI-200	10.2.50.116	00-D0-89-0E-5163	CI-200	OK	OK

Host name	IP address	MAC	Brand	Status	Connected
TP100	10.2.50.104	BC-BA-E1-01-01-5C	AREC	OK	

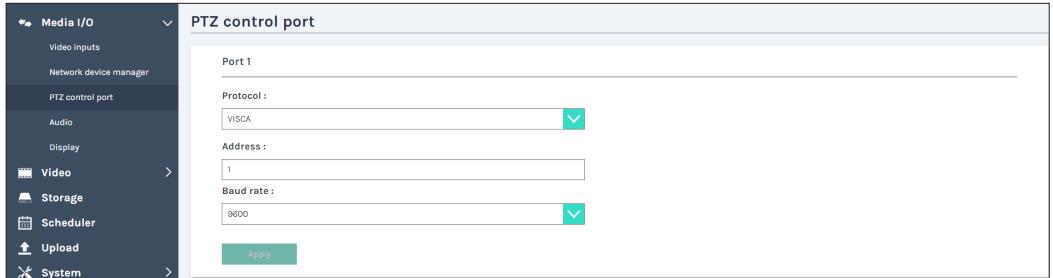
The screenshot shows a 'Login authentication' dialog box with a close button (X) in the top right corner. It contains two input fields: 'User name :' and 'Password :'. Below the fields is a green 'Authentication' button. The background shows a blurred view of the 'Status' section of the interface with multiple 'Login' buttons.

1.1.3 PTZ control port

The KL-3 facilitate the web-based users control PTZ cameras using RS-232 protocol. Connect an USB-to-RS-232 adapter to the KL-3 back USB port in advance. Before making any changes to this page, please get to know about the RS-232 settings of the desired PTZ camera. The following configurations must be identical to the external device settings.

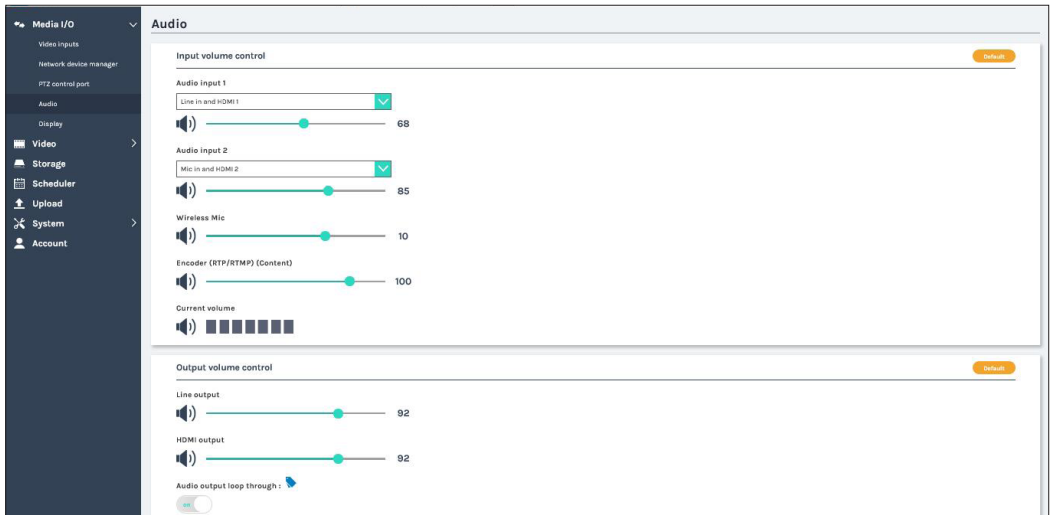
- Protocol : Available options are VISCA, PELCO-D, and PELCO-P;
- Address : Set according to the camera address for RS-232 communication. VISCA: 1-7, PELCO D/P: 1-255;
- Baud rate : 2400, 4800, 9600, and 115200

Note: Support USB to RS-232 serial port adapter with chip PL2303 or FT4232H.



1.1.4 Audio

Adjust volume and select the audio input source.



Input volume control - Users can select the sound source from the drop-down menu of Audio input 1 or Audio input 2. Tune the recorded volume from each audio input. Configurable range of sound input is 0-125, of AREC wireless microphone 0~15. The nearby volume meter indicates the encoded audio current volume.

Output volume control - Adjust the Line output or HDMI output volume.

Set Audio output loop through on/ off.

1.1.5 Display

Set the KL-3 on screen display language, video output settings and color adjustment.

Media I/O

- Video inputs
- Network device manager
- RTZ control port
- Audio
- Display
- Video**
- Storage
- Scheduler
- Upload
- System
- Account

Display

Display settings

On-screen language : English

Apply

Video output settings

HDMI output mode : Monitor input sources

VGA output mode : Preview mixed recording

Apply

Screen color adjustment Default

HDMI

Brightness 34

Contrast 46

Saturation 50

Hue 52

On-screen language: Change the GUI language.

Video output settings: Setting the HDMI display Monitor input sources or Preview mixed recording

Screen color adjustment(HDMI and VGA): Change the Brightness, Contrast, Saturation and Hue

1.2 Video

The pages within Video construct a collection of settings that defines the operating characteristics for a streaming/recording, include:

Media I/O

- Video
- Recording
- Streaming
- Content
- Theme
- Storage
- Scheduler
- Upload
- System
- Account

Recording

Encoder settings

Recording mode : M4M Mixed video

Video compression : Full HD

Front USB Storage :

Loop recording :

Apply

Bookmark settings

Add automatically :

Apply

Resolution: 1080x1080
Average bitrate: 4 Mbps
FPS: 30
GOP: 30
H.264 profile: high profile
Audio bitrate: 256 Kbps
Audio sample rate: 48 KHz

Recording Configure Encoder settings and Bookmark settings for recording.

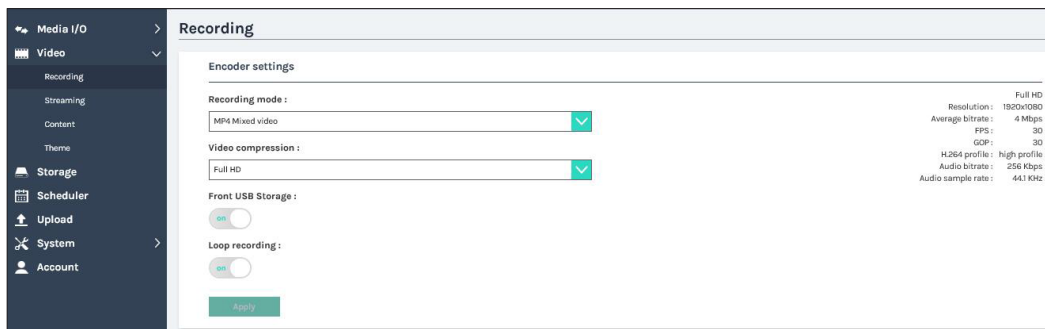
Streaming Configure Encoder settings for streaming.

Content Edit the information of the content that will be recorded.

Theme Set the overlay files, background images and theme types.

1.2.1 Recording

Set up the [Encoder settings](#) and [Bookmark settings](#) for recording.



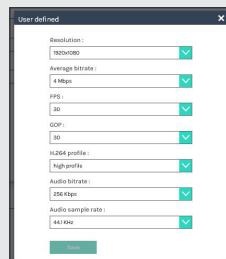
Encoder settings

- Recording mode: Available options are MP4 Mixed video and MP4 Mixed video/ Original source.
- Video compression : There are 7 preset recording video compression profiles for different resolution and bitrate. Select one to see the option details on the right side. You may customize your own user defined option.
- Front USB recording : Set ON/OFF to enable/disable KL-3 front USB recording function. Make sure the front USB drive connected can be normally read and written and have enough space for the recorded files.
- Loop recording : Set ON/OFF to enable/disable KL-3 local storage recording rule.

Click Apply button at the bottom corner when finished to apply the settings.

Profile name	Video Resolution/ Bitrate	Application description
Full HD	1080p/ 4Mbps	Dynamic scene and large local hard disk recording.
Internet Full HD	1080p/ 3Mbps	General scene and medium local hard disk recording.
HD	720p/ 2Mbps	Static scene and small local hard disk recording.
Internet HD	720p/ 1.5Mbps	Live broadcasting through the Internet.
SD	480p/ 800kbps	Static scene for live broadcasting through the Internet.
Mobile SD	480p/ 500kbps	Live broadcasting for portable mobile devices watching.

Click button to open customization window as shown below, and click Save button to make the option changed.



User defined

Bookmark settings- Set ON/OFF to enable add bookmark automatically.
Click Apply button at the bottom corner when finished to apply the settings.

Bookmark settings

Add automatically :

on

Add prefix to video filename: Use this description is added to the Video filename as a prefix string for Download and Upload.

Recording file name setting

Prefix setting :

Audio shift- Adjust the delay of sound after video transmission. Synchronize the video and audio with consistency.

Audio settings

Audio shift :

100 ms

1.2.2 Streaming

AREC Media Station support two streaming address with same video compression. The page provides user to change streaming settings. It is essential that the configurations follow the streaming protocol and recommended settings your server system supports.

- Media I/O >
- Video** >
- Recording
- Streaming
- Content
- Theme
- Storage
- Scheduler
- Upload
- System >
- Account

Streaming

Encoder settings

Video compression :

Internet HD
Resolution : 1280x720
Average bitrate : 1.5 Mbps
H264 profile : high profile


Streaming 1 settings

Live streaming :

URL :

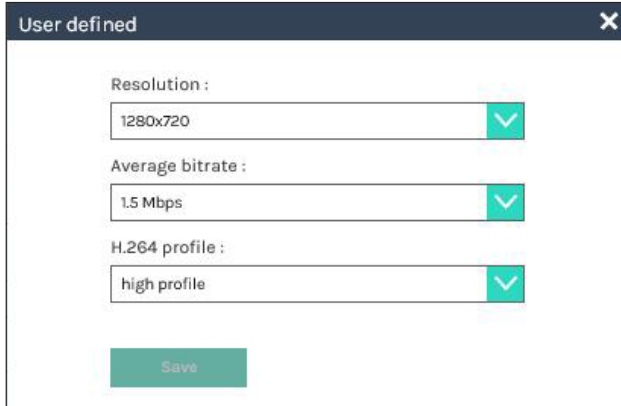
Streaming 2 settings

Live streaming :

Video compression profile – There are 7 streaming video compression profiles for different resolution and bitrate. Select one to see the option details on the right side. You may customize your own user defined option. Click  button to open customization window as shown below, and click Save button to make the option changed.

Click Apply button at the bottom corner when finished to apply the settings.

Note: The resolution for streaming cannot be larger than that for recording.



A screenshot of a 'User defined' settings window. It has a dark blue header with the title 'User defined' and a close button (X). The window contains three dropdown menus, each with a green checkmark on the right side:

- Resolution : 1280x720
- Average bitrate : 1.5 Mbps
- H.264 profile : high profile


At the bottom left, there is a green 'Save' button.

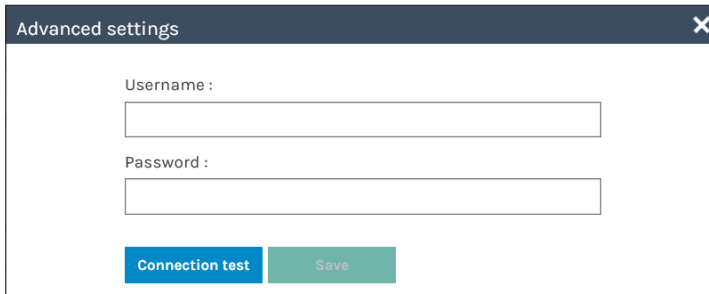
Live streaming : Select OFF/ Together with recording/ Streaming always/ Enable streaming button to setting live streaming ability.

Together with recording : Streaming and recording simultaneously

Streaming always : KL-3 always streaming

Enable streaming button : Enable streaming On/Off button on GUI and Online Director

Click  button to open customization window as shown below, RTMP username/password and test for Wowza. Click Save button to make the option change.



A screenshot of an 'Advanced settings' window. It has a dark blue header with the title 'Advanced settings' and a close button (X). The window contains two text input fields:

- Username :
- Password :

At the bottom, there are two buttons: a blue 'Connection test' button and a green 'Save' button.

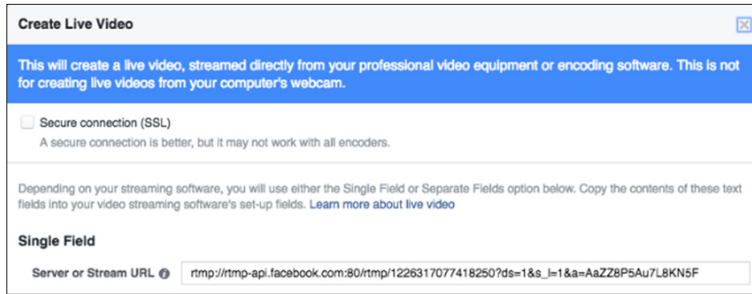
URL – The available protocol on the KL-3 are RTP and RTMP, the URL format is as follows :

RTMP	In the protocol setting field, copy and paste the Server or Stream URL and Stream name provided by you CDN or server administrator in the format <code>rtmp://serverurl/streamname</code> .
RTP	Enter the destination IP address and the port number where the streaming is played in the format <code>rtp://@:1234</code> For example, <code>rtp://226.10.24.32:7000</code>

Followings are some popular examples for streaming settings.

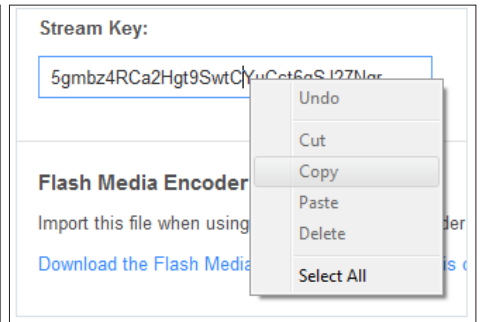
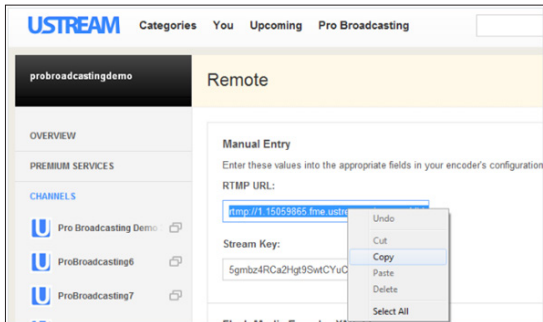
Streaming to Facebook Live

Copy the contents of the Single Field, Server or Stream URL, and paste in the KL-3 streaming protocol setting field.



Streaming to Ustream

Combine the contents of both fields: RTMP URL and Stream Key, insert a slash between them. Paste this string into the KL-3 streaming protocol setting field. For example: `rtmp:1.15059865.fme.stream.tv/ustreamVideo/15059865/5gmbz4RCa2Hgt9SwtCYuCt6qS137Nar`



Streaming to YouTube Live

Combine the contents of both fields: Primary Server URL and Stream Name, insert a slash between them. Paste this string into the KL-3 streaming protocol setting field.

Streaming to a media player on a PC in the same LAN with the KL-3

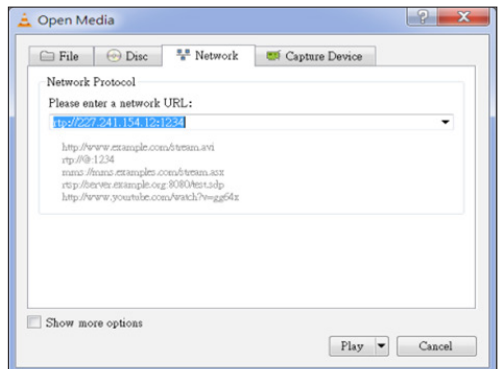
Enter the destination IP address and the port number where the streaming is played in the format `rtp://@:1234`.

Unicast: For a single point connection, the destination IP must be set to the location where the stream is played.

Multicast: The destination IP must be multicast IP address where it can be shared with multiple viewers.

The KL-3 use IP address: 239.0.0.1 and port number: 5004 as the stream default. The available range of port number is 1024 to 65535.

To view the stream from a media player, open the URL in a media player, such as:



1.2.3 Content

The KL-3 contains up to 13 user-configurable elements for describing content. These elements and texts will be saved in the recording data of the newly created content. Enter text in the content settings fields if desired. Click Apply button at the bottom corner when finished to apply the settings.

Note: These updates do not apply to the existing recordings. To edit the existing recording information, see Video Manager.

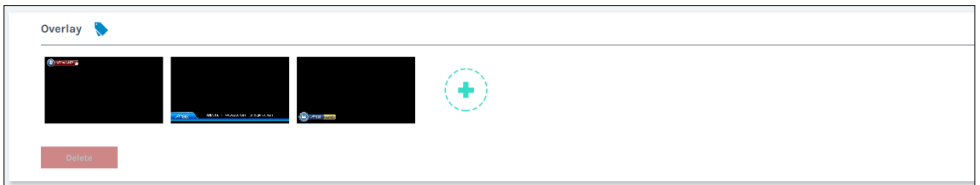
1.2.4 Theme

KL-3 by factory default provides three overlays, three backgrounds and four themes.

Overlay : Select and delete the overlay. Click [+] button and select the desired file in the Open dialog box. The file name would appears with the newly uploaded image. Click Apply button at the bottom corner to apply the settings, or click [Delete] Cancel to give it up.

Note: The overlay file must be in PNG format, maximum size 1920px*1080px.

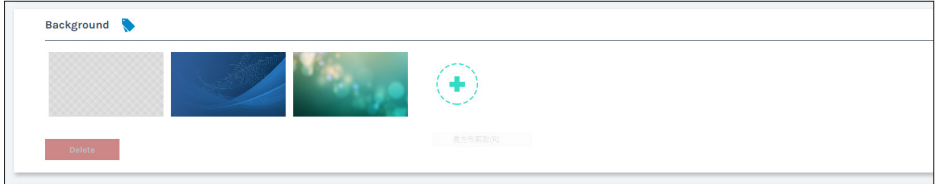
Note: The user can use the mouse to drag the order of the display.



Background : Select and delete the background. Click [+] button and select the desired file in the Open dialog box. The file name would appears with the newly uploaded image. Click Apply button at the bottom corner to apply the settings, or click [Delete] Cancel to give it up.

Note: The background file must be in PNG format, maximum size 1920px*1080px.

Note: The user can use the mouse to drag the order of the display.



Theme : Theme is integrated with "Overlay", "Background" and "Layout". KL-3 by factory default provides four themes by different types of overlays, backgrounds and layouts. Click [+] to set the theme type. Input the theme name, and select the desired type of overlay, layout and background. Click Apply button at the bottom corner to apply the settings.

Note: The user can use the mouse to drag the order of the display.



1.3 Storage

The recording files produced by the KL-3 are stored on its own internal hard drive. This page provides user to set local storage drive or USB and reveals the disk information in the lower section.

Storage

Record disk settings

Local storage :
Internal (SATA HDD) ✓

Apply

Disk information

Interface	Disk name	Brand	Capacity	Free Space	Format
SATA	Internal (SATA HDD)	ATA WDC WD10SPZX-00Z	916.89 GB	869.21 GB	Format

Record disk settings-

Local storage: The internal hard drive of KL-3 is preset for storing the recorded files.

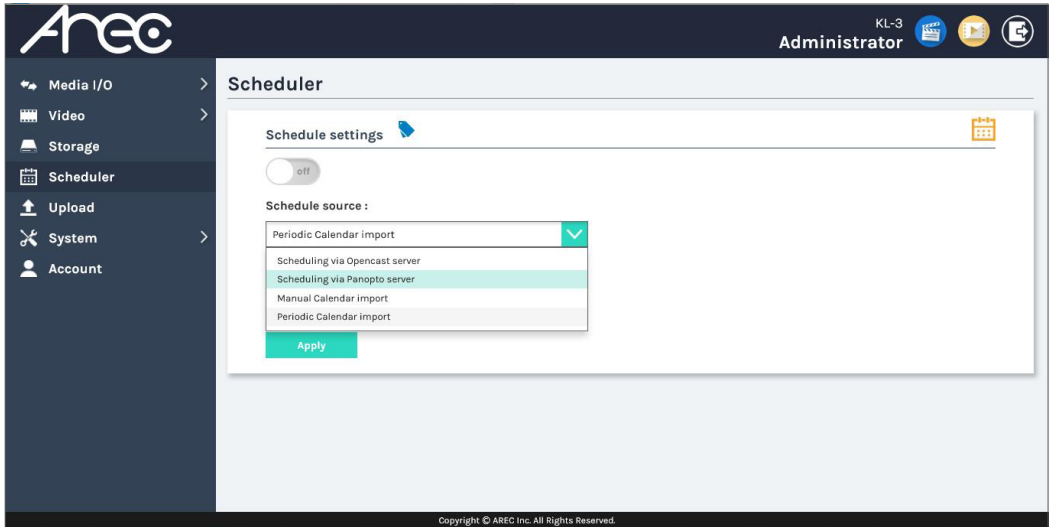
Click Apply after setup is completed. New setting takes effective from next recording being created.

Disk information- Displays disk information, available storage space and total capacity. Click "Format" to clean up the internal storage drive. A dialog box opens asking you to confirm the disk formatting. Click Confirm to permanently delete all recording packages.

1.4 Scheduler

The Schedule Settings page allows the administrator privileges to choose how to obtain presentation schedules and, if appropriate, import calendars or connect to an Opencast scheduling system. Start video recording automatically at the date and time specified in a calendar schedule.

Available options are Scheduling via Opencast server, Scheduling via Panopto server, Manual Calendar import, and Periodic Calendar import.



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Scheduling via Opencast server : Centralized Scheduling via Opencast server

Scheduling via Panopto server Centralized Scheduling via Panopto server

Manual Calendar import : Importing iCalendar files manually


Periodic Calendar import : Importing iCalendar files automatically

Scheduler							
Date	Start time	End time	Presenter	Room	Title	Description	
2020-03-18	15:00:00	16:00:00	arec.com__oqnplfb3qr105oc...		Busy		


Click  Open Scheduled Events page.
 Refresh button: Synchronize with server

Scheduling via Opencast server

1. Enter the Capture agent name, Username, Password and URL in these fields.
 - a. Capture agent name: the ID to recognize KL-3 on Opencast platform
 - b. Username: Opencast user account
 - c. Password: Opencast user password
2. Click Apply. The event schedule is added and appears in the calendar on the Scheduled Events page.
3. Go to Opencast admin, and check if the KL-3 is correctly registered on Opencast.

Schedule settings 

off

Schedule source :
 Scheduling via Opencast server 

Capture agent name :

Username :





Password :

URL :

Apply



“Opencast Admin” -> “Capture” -> “Locations”

OPENCAST








Opencast Project Administrator

Locations

Locations

3 rows [Edit](#)

Status	Name	Last updated	Actions
● idle	KS-506_MelodyCCC	Today at 2:42 PM	
● idle	LS-300_020EA0	Today at 3:55 PM	
● idle	smp-science80	Today at 3:55 PM	

< 1 >
10 ▾

Scheduling via Panopto server

1. Enter the Capture agent name, Registration key and URL in these fields.

Note: Get the registration keys token for scheduler in Panopto System

2. Click Apply.

3. Go to Panopto System => Remote Recorders, and Your AREC media station will list up in your Panopto account as a remote recorder.

Schedule settings

off

Schedule source :
Scheduling via Panopto server

Capture agent name :
KL-3_021046

Registration key :
.....

URL :
https://arec.panopto.com

Apply

Remote Recorders

Refresh | Settings for all remote recorders | Manage registration keys

Sort by: Name | Status | Next Recording date | Version

Name	Status	Next Recording date	Version
LS-300_14 (60.248.164.121)	Not Recording	Next recording: 10/25/2019 1:45 PM	Version: 0.0.1
LS-300_021E3C (60.248.164.121)	Not Recording	Next recording: 10/25/2019 1:45 PM	Version: 0.0.1

Manual Calendar import

1. Click Import. An Open window opens.

2. Locate and select the iCalendar file for import. The file must have a .ics file extension.

3. Click Open. The Open window closes and the file name is displayed within the Manual Calendar Import panel area. The Import button is active.

4. Click Apply. The event schedule is added and appears in the calendar on the Scheduled Events page.

Schedule settings

on

Schedule source :
Manual Calendar import

Load a configuration.

Import

Apply

Periodic Calendar import

1. Enter the iCalendar URL in this field.

2. Click Apply. The event schedule is added and appears in the calendar on the Scheduled Events page.

Note: iCalendar Schedule can not be set to cycle, only accept single. Cannot set more than 2 pens to start at the same time. When setting the time overlap, the start time whichever is earlier.

Schedule settings

on

Schedule source :
Periodic Calendar import

URL :
[Empty text field]

Apply

1.5 Upload

The KL-3 is able to automatically upload recordings from its internal drive to a network server. In this page, user can configure the upload destination and tests the connection.

1.5.1 Upload settings

Upload settings

Auto upload :

OFF
▼

Delete after uploading :

off

Upload files :

All recorded files
▼

Apply

1. Auto upload: Available options are OFF, After recording is completed and Daily scheduled

a. After recording is completed: Upload the files after recording

b. Daily scheduled: Setup start & End time for uploading, Enable this setting Media Station will in "full speed mode" for uploading.

Note: GUI provided full speed mode on/off, please refer to 2.1.2.4

Auto upload :

Daily scheduled
▼

Start time

08

:

00

End time

12

:

00

⚠ Please stop daily schedule uploading 30 minutes before your next schedule recording event.

2. Delete after uploading on/off: Enable auto delete the files after uploading

3. Upload files: Available options are All recorded files, Mixed video and Original source

1.5.2 Transfer settings

Transfer settings

Mode :
 ✓

URL :


Port :

Folder :

Authentication :
 ✓

Username :

Password :



Connection test

Apply

Followings to be configured according to the upload destination.

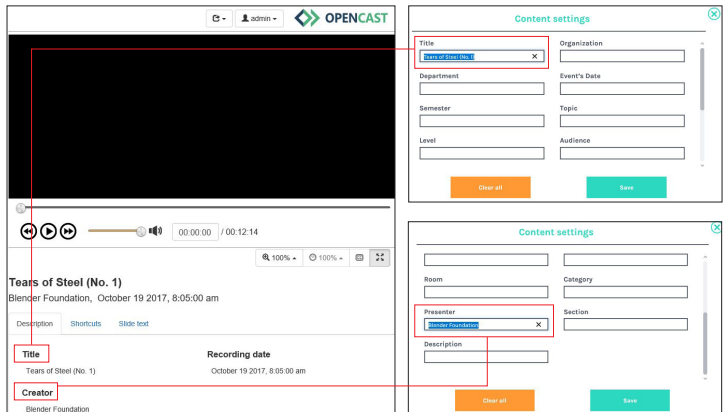
- Mode: Select network server type (FTP, SFTP, Kaltura, Panopto, Opencast HTTP, Opencast HTTPS).
- URL, port, or User ID: Configure these fields according to the upload destination.
- Folder: Enter the folder name of the upload destination.
- Authentication: Configure this section according to the upload destination authentication method.

Connection test- Click the Connection test button to validate upload settings.

Click Apply after setup is completed. New setting is effective from next recording being created.

The upload status/result of the corresponding recordings is denoted in the Video Manager web pages.

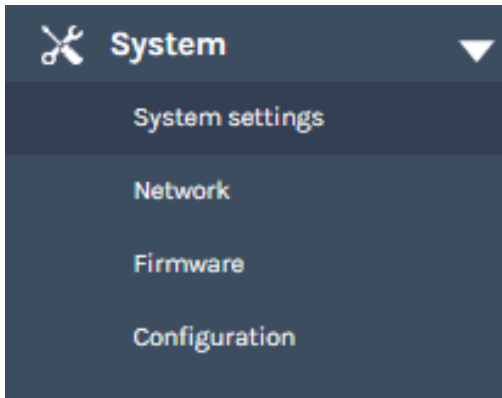
Note : If the web server is Opencast, the video title and the creator description are automatically filled with the title and presenter of the Director's content settings.



The screenshot shows the Opencast interface with two 'Content settings' panels. The top panel shows fields for Title, Organization, Department, Event's Date, Semester, Topic, Level, and Audience. The bottom panel shows fields for Room, Category, Presenter, Section, and Description. In the recording details below, the 'Title' and 'Creator' fields are highlighted in red, with red lines connecting them to the corresponding 'Title' and 'Presenter' fields in the content settings panels above.

1.6 System

The pages within System include the following:



System settings	Contains device identification, date and time configuration, and booting settings.
Network	The device IP assignment in the networking.
Firmware	Displays the current firmware version, and provides web-based user a way to update firmware for the device.
Configuration	Export / Import the configuration.

1.6.1 System settings

The basic information and initial date/time of this device are configured here.

The screenshot shows the 'System settings' page in the Arec web interface. On the left is a navigation menu with options: Media I/O, Video, Storage, Scheduler, Upload, System (selected), System settings, Network, WiFi module, Firmware, Configuration, and Account. The main content area is titled 'System settings' and contains the following sections:

- Device Identification:** Fields for Hostname (KL-3), Device description (KL-3), Brand (AREC inc.), Model (KL-3 Series), Serial number (T8F11029168), and MAC (BCBAE1021046). A note states 'Hostname follows RFC-952 internet host table specification.' An 'Apply' button is at the bottom.
- Date and time:** Shows 'Device current date and time: 2020-03-17 16:19:17'. Fields for Time zone (Asia/Taipei), Setting mode (NTP service), and NTP server url (pool.ntp.org). An 'Apply' button is at the bottom.
- Boot image:** Shows a preview of the boot image with an 'Apply' button and a 'Browse' button. File format: PNG, Size (Max): 3MB, Resolution(Max): 1920x1080.
- Power:** Field for Power mode (Boot-up with power button). An 'Apply' button is at the bottom.
- Web server protocol:** A note: 'The system will reboot after changing the protocol settings. Please re-login.' Field for Protocol (HTTP). An 'Apply' button is at the bottom.

Device identification – Set the name (device description) for this device.

Date and Time – Set the device date, time, and time zone manually/ be synchronized to PC, or with an external NTP (network time protocol) server.

Boot image – Change the boot screen image. The boot screen is the image you will see when you boot up the device.

Click Browse button and select the desired file in the Open dialog box. The file name would appear with the newly uploaded image. Click Apply button at the bottom corner to apply the settings, or click **Cancel** to give it up.

Power – Choose how to turn on the device.

Web server protocol: Support HTTP and HTTPS, default is HTTP.

Note: The boot screen file must be in PNG format, maximum size 1920x1080px.

1.6.2 Network

By default KL-3 uses DHCP to obtain an IP Address via a router or any DHCP server. To use a static IP address for your device, configure the network settings in this webpage.

The screenshot displays the 'Network' configuration page in the Arec web interface. On the left is a dark sidebar menu with options: Media I/O, Video, Storage, Scheduler, Upload, System (expanded), System settings, Network, WiFi module, Firmware, Configuration, and Account. The main content area is titled 'Network' and contains two sections: 'Network settings' and 'LAN IP settings'. Both sections include a warning: 'The system will reboot after changing the network settings. Please re-login.' The 'Network settings' section has a dropdown for 'IP assignment' set to 'DHCP', and input fields for 'IP address' (10.0.0.1), 'Subnet mask' (255.255.255.0), 'Default gateway' (10.0.0.254), 'Primary DNS Server' (10.0.0.1), and 'Secondary DNS Server'. A green 'Apply' button is at the bottom right. The 'LAN IP settings' section has an 'IP address' field with '192.168.1.' and '254' entered, and another green 'Apply' button.

Network settings

IP assignment – Select DHCP to have IP address be allocated by a router or any DHCP server being connected; or Select Static IP and enter the required network settings including IP address / subnet mask / default gateway/ DNS server.

Click Apply at lower right corner, click Confirm in popup dialog box.

LAN IP settings

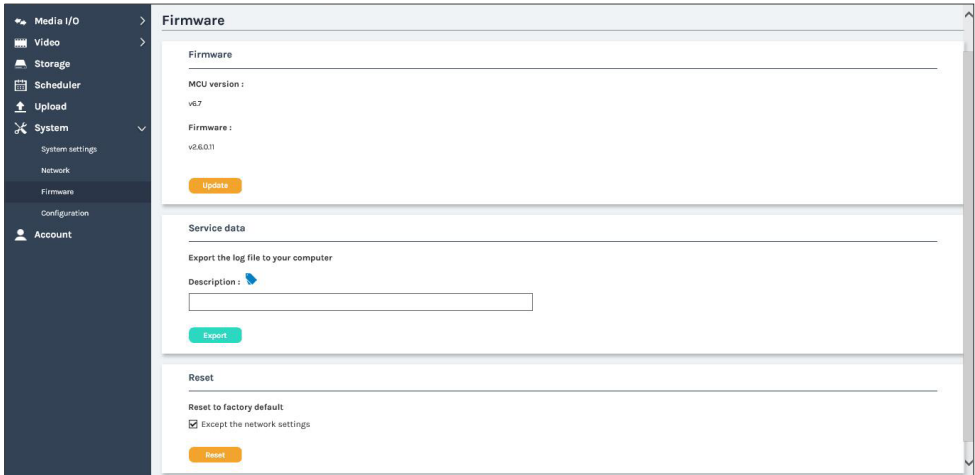
Change the internal network IP address

Note: The system will automatically reboot to complete the network settings. Login the updated IP address after the system restarts.

1.6.3 Firmware

This page displays the device firmware version. To update the firmware, click "Update" and a dialog box opens asking you to select the file. Select the desired file and click "Open", the dialog box closes and the file name appears underneath. Click "Apply" to start firmware update. Click "Cancel" if the uploaded file is no longer wanted.

Note: System will reboot automatically when the firmware update is completed. It might takes a few minutes. Do not shutdown/ power off the system during firmware updating.



Service data : Export the log file to your computer or upload it to the Customer Service Server. Input the file name, and then click "Export" or "Upload".

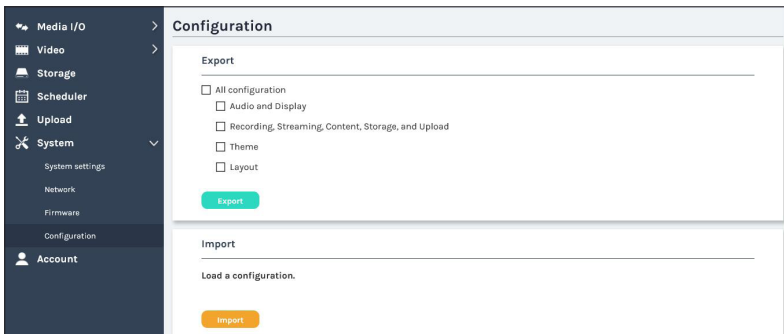
Note : The length of the string is 0~16 characters, allowing letters, numbers, symbols 11(~!@\$%^&*+_-).

Reset : Reset to factory default. Check if you want to keep your network settings, and click "Reset".The dialog pop out and ask you "System will reboot after updating, continue?"

" Click "Confirm" to start reset.

1.6.4 Configuration

You can export or import the configuration in this page:



Export : Select the configuration to export and click "Export".

Import : Click "Import"to load a configuration.

1.7 Account

Users can set the system account password etc.

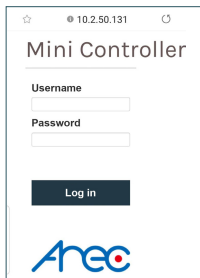
The screenshot displays the 'Account management' section of the Arec interface. On the left is a dark sidebar with navigation icons for Media I/O, Video, Storage, Scheduler, Upload, System, and Account. The main content area is titled 'Account management' and contains three user management sections:

- Administrator**: Username field contains 'admin'. New password and Confirm password fields are empty. An 'Apply' button is at the bottom.
- Online Director**: Username field contains 'director'. New password and Confirm password fields are empty. An 'Apply' button is at the bottom.
- Video Manager**: Username field contains 'video'. New password and Confirm password fields are empty. An 'Apply' button is at the bottom.

Changing username and password with Administration/ Online Director / Video Manager :

- (1) New User: Enter a user login name that you want.
- (2) New Password: Enter the user login password that you want.
- (3) Confirm Password: Requires you to enter your password again for confirmation.
- (4) Click Apply.

1.8 Mini Controller (mobile phone)



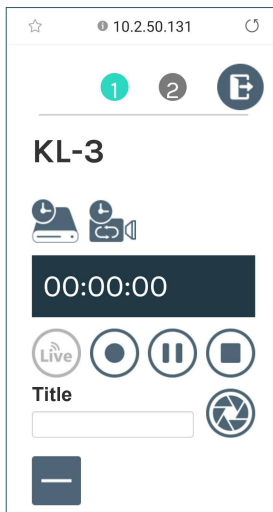
Connect mobile device to KL-3, user can make it easier to control the KL-3 with the mobile device. User can quickly record or switch screens by using the mobile device.

Login : First open the browser, and input IP address in the browser page, log in Mini Controller from the initial login page with Administrator or Online Director account.

1.8.1 Page1

On the top ,show the page1, page2 and exit button.

In page1, show the device description, storage space and recording button.

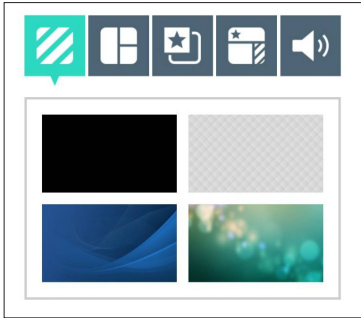


Name	Function
1 Page 1	Click to jump to page 1
2 Page 2	Click to jump to page 2
Exit	Exit the Mini Controller
Device description	Show the device description
Storage space	Show the storage space
Loop recording	Loop recording on
Front USB	Show the storage space
00:00:00 Record time	User can know from here how long they have been recording
Streaming setting	When administrator srteaming setting : Together with recording
LIVE Live streaming	KL-3 live broadcast
Streaming	Streaming on/off (When administrator srteaming setting : Independent streaming control)
Record	Click to start recording(In Playback mode : can not record)
Pause	Click to pause recording
Stop	Click to stop recording
Title	Enter title of video
Snapshot	Screenshot of the display
Minimum	Minimize toolbar

1.8.2 Page2

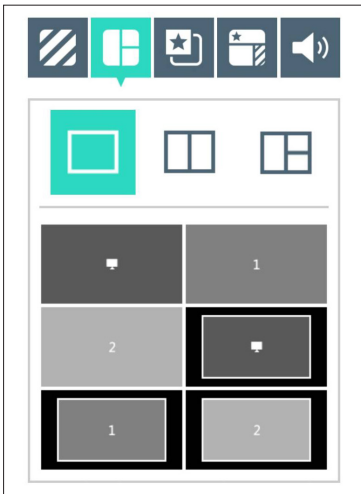
Recording controls panel

There are five tab panels for quickly switching recording background,layout,overlay,theme, and adjusting volume.



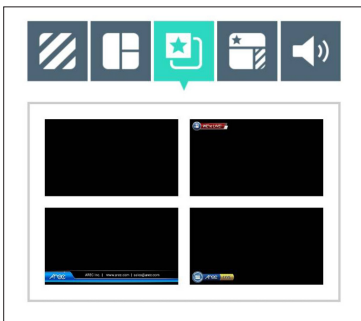
Background

Display the available background images for Online Director controlling. Click the background thumbnail to apply it to the video. KL-3 by factory default provides one plain black background and three user-configurable backgrounds. See Administrator \ Video \ Theme for more detail.



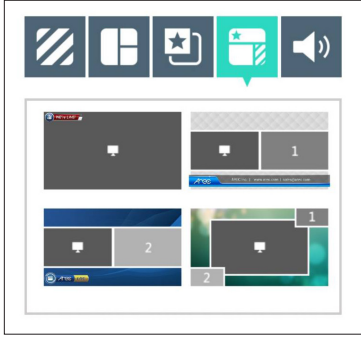
Layout

There are layout templates which are factory default layouts and pre-defined into four groups. User can apply layout to the live view window, recording session, and web streaming all at once. Click the layout template to select the desired layout.



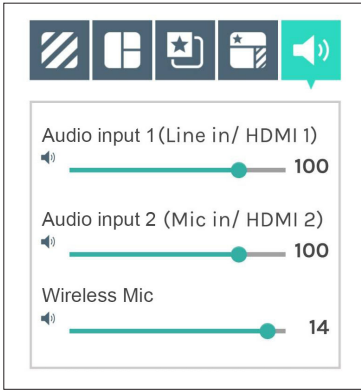
Overlay

KL-3 by factory default provides one plain black overlay and three user-configurable overlays. Click the overlay thumbnail to apply it to the video. See Administrator \ Video \ Theme for more details.



Theme

Theme is integrated with "Overlay", "Background" and "Layout". KL-3 by factory default provides themes by different overlays, backgrounds and layouts. See Administrator \ Video \ Theme for more details.



Volume control

The audio control bar is to adjust the recorded volume from each audio input and adjust the output volume. Adjustable range of sound input is 0-125, AREC wireless microphone 0~15.

Chapter 2 Director

2.1 Local Director

The KL-3 Local Director operates on the screen after the USB port is connected to the mouse or projector. GUI allow user to control recording and have a live stream view on the display. This director control panel makes it easy to apply layout, select background, and control the audio recorded during the recording process.



2.1.1 Preview

This section briefly introduces the names of the various function buttons, and the functions will be introduced in the next section.



—	Hide the menu	LIVE	Stream Status		Snaoshot
	Maximum	00:00:00	Record Timer		Playback
	Overlay		Streaming On/Off		Settings
	Layout		Record	10.2.50.152	IP Address
	Background		Pause		Audio Volume
	Theme		Stop		Display

2.1.2 Toolbar

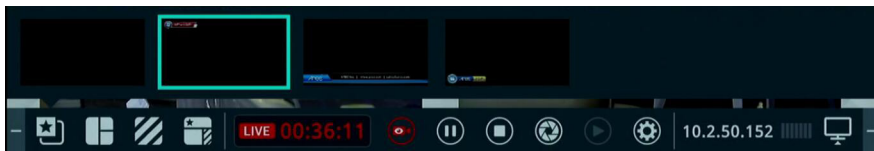
Here will introduce the function of all buttons. We divide the function into many small parts to introduce it for easy reading.

2.1.2.1 Theme and Display

There are five buttons for quickly switching recording overlay, layout, background, theme and display.



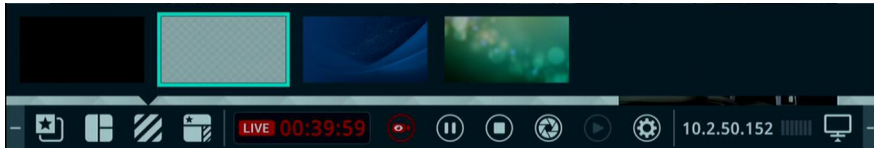
Name : Overlay
 Function : Change Overlay
 Brief introduction :



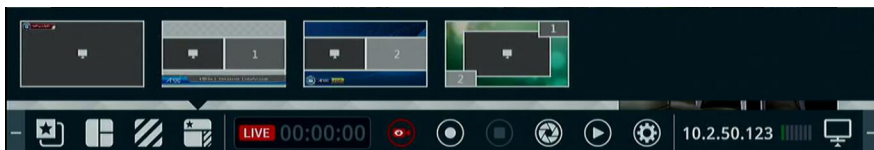
Name : Layout
 Function : Change Layout
 Brief introduction :



Name : Background
 Function : Change Background
 Brief introduction :



Name : Theme
 Function : Change Theme
 Brief introduction :




Name : Display
 Function : Change Content / Cam 1 / Cam 2 / Mixed video cycling
 Brief introduction : Switch image sources to monitor individual image inputs.

The video output settings display Monitor input sources or Preview mixed recording, please refer to 1.1.5 Display

2.1.2.2 Recording, Streaming control and Snapshot

1. There are four buttons for quickly control video recording

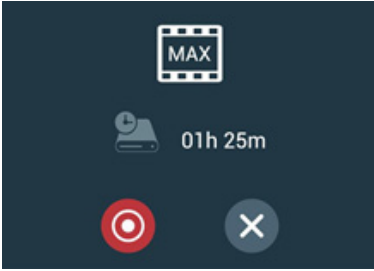
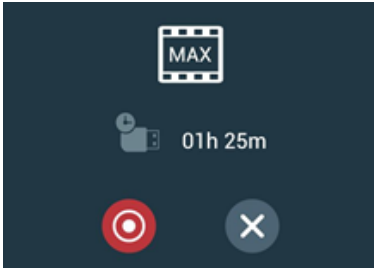

Name	Function	Description
 Status	Streaming status	Status change to red while KL-3 live broadcast
00:00:00 Timer	Record timer	Timer change to red while recording
 Streaming	Streaming On/Off	When administrator streaming setting : Enable streaming button
 Record	Video recording	The Record button is red to indicate active recording
 Pause	Pause recording	The preview video are suspended. To resume recording, click Record.
 Stop	Stop to end a recording	-
 Snapshot	Screen shot of the preview.	When not recording, the picture will be placed in the snapshot folder of the internal hard drive or front USB, and will appear in the Video Manger. When recording, the picture will be placed in the data set of the video(see 3.1.4 NO.6), and when the snapshot is taken, the bookmark will be automatically added.

2. video recording

Limitation

1. Video length(Max.) : 8hr
2. If Front USB is FAT32, USB record size only 4 GB space time.

Rule

<p>1. Loop recording off</p> <ol style="list-style-type: none"> a. Front USB recording off : If internal hard drive < 8hr : max = internal hard drive, show the dialog b. Front USB recording on and internal hard drive < USB <ul style="list-style-type: none"> • If internal hard drive < 8hr : max = internal hard drive, show the dialog 	
<p>2. Loop recording off</p> <ol style="list-style-type: none"> c. Front USB recording on and internal hard drive > USB <ul style="list-style-type: none"> • If USB < 8hr : max = USB, show the dialog 	
<p>3. Loop recording on (internal hard drive = 8hr)</p> <ol style="list-style-type: none"> a. Front USB recording on and internal hard drive > USB <ul style="list-style-type: none"> • If USB < 8hr : max = USB, show the dialog 	

2.1.2.3 Playback Video

■ Video list Dialog












Show all videos saved in hard drive,three videos in one page.

- a. Date of video
- b. Start-End time of video
- c. Total time of video
- d. File list page up
- e. File list page down
- f. Video list pages,click to jump to different video list page.
- g. Select the file for copy to front usb disk
- h. Click the icon start to copying. While using copy mode, users cannot operate any other tasks like recording, streaming. The system would only focus on copy.

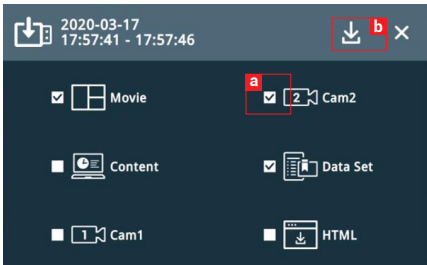
■ Playback mode functions



Name	Function	Description
Play/ Pause	Play/Pause video	While the video is playing, click to pause and click again to resume
Time bar	Show playback progress in bar	Click any point on the bar will jump to correspondent time
00:00:00 Time 00:00:02 Information	Total recording time & current playback time	-
Audio On/Off	Mute or resume playback audio	-

 Volume bar	Show playback volume level	Click any point on the bar will adjust to correspondent volume level
 Bookmark	Bookmark of video	(The dialog will be introduced below.)
 Switch sources	Change playback source	-
 Mixed video	Playback Mixed video	-
 Content	Playback Content video	-
 Cam 1	Playback Cam 1 video	-
 Cam 2	Playback Cam 2 video	-
 copy to usb	Open file list Dialog	-
 Exit	Exit the playback mode	-

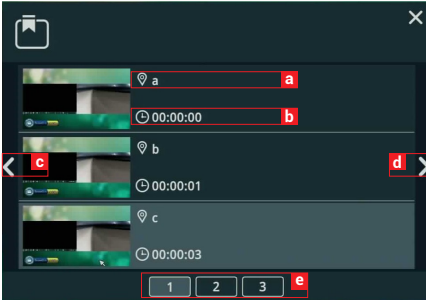
■ File list Dialog



Select the file for copy to front usb disk

- a. Select the file for copy to front usb disk
- b. Click the icon start to copying, While using copy mode, users cannot operate any other tasks like recording, streaming. The system would only focus on copy.

■ Bookmark



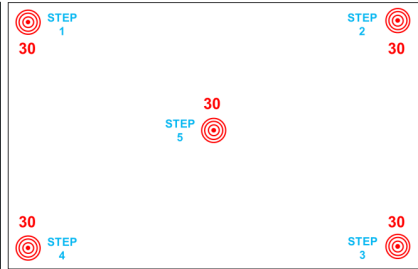
Show all Bookmark list attached with this playback video, three Bookmark item in one page.

- a. Bookmark Title
- b. Time Point
- c. Bookmark list page up
- d. Bookmark list page down
- e. Bookmark list pages, click to jump to different video list page.

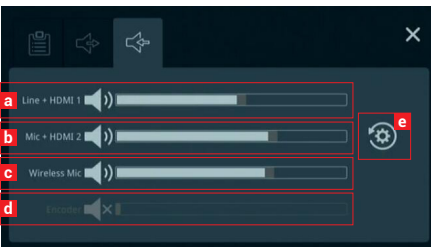
2.1.2.4 Settings

1. Information

- a. Show device information: Hostname/ Device description/ IP address/ Model/ Version/ Brand
- b. Projector calibration: Some of the iFPD need to be calibrated before use. Using mouse control to click icon to start calibration. First appears the Touch Module list, select one and the calibration page will show. Using pen or finger to click on the center of the dot one by one. Totally 5 dots and each dot remain 30 seconds for time out.

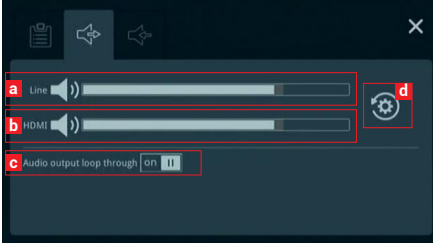


2. Audio In / Out



Audio Input Volume Control

- a. Line/ HDMI 1/ Line + HDMI 1 : Mute/ Down/ Up
- b. Mic/ HDMI 2/ Mic + HDMI 2 : Mute/ Down/ Up
- c. Wireless Mic : Mute/ Down/ Up
- d. Encoder: Mute/ Down/ Up
- e. Default (Volume only)



Audio Output Volume Control

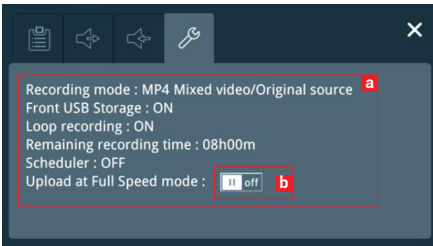
- a. Line : Mute/ Down/ Up
- b. HDMI : Mute/ Down/ Up
- c. Audio output loop through : On/Off

Note :

Audio Loop-through Off : Local audio output does not include local audio input (Audio 1, Audio 2, Wireless Microphone and USB Microphone)

d. Default (Volume only)

3. Other settings



a. Admin settings information

b. Upload at Full Speed mode on/off: The "full speed mode" for uploading. While using full speed mode to upload, users cannot operate any other tasks like recording, streaming. The system would only focus on uploading.


Note: Admin provided related options for users to setup it, please refer to 1.5.1

2.1.2.5 Others

Name	Function	Description
10.2.50.152	IP Address	Device WAN IP Address
	Audio Volume	Audio volume meter

2.2 Online Director

The KL-3 embedded Online Director web pages allow user to control recording and have a live stream view of the output video. This director control panel makes it easy to apply layout, select background, and control the audio recorded during the recording process.

Entering the Online Director webpage via [Administrator] by clicking the  button or login Online Director from the initial login page with default username director and password director. Both ways lead to the Online Director control panel for web-based users.

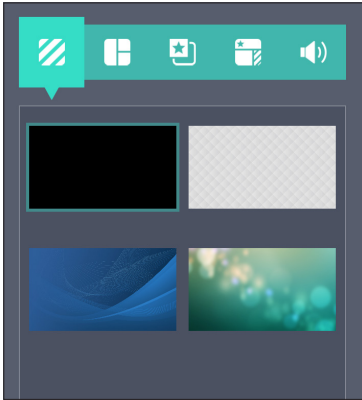


These Web pages provide the following features and information about:

1. A live view window and a control panel of the KL-3 recording and streaming.
2. A visual sources monitoring exclusive panel which allow user to control and monitor the cameras providing the video source.
3. A simplified setting page to configure the content that is going to be recorded and streamed.
4. A Video Manager hyperlink to manage the content stored in the KL-3.
5. Device description, which is configurable for system Administrator, indicates the device location...etc.
6. Storage capacity which is converted into remaining time for recording.
7. Recording/ Streaming status and timer.
8. Recording/ Streaming control and Snapshot buttons.
9. Audio volume meter indicates the audio volume of the content being recorded and streamed.

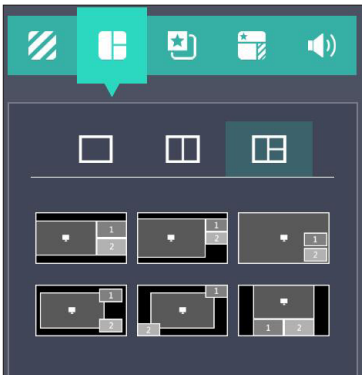
2.2.1 Recording controls panel

There are five tab panels for quickly switching recording background,layout,overlay,theme, and adjusting volume.



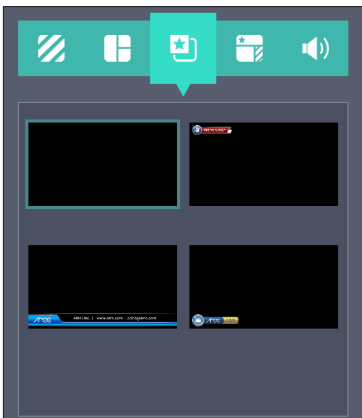
2.2.1.1 Background

Display the available background images for Online Director controlling. Click the background thumbnail to apply it to the video. KL-3 by factory default provides one plain black background and three user-configurable backgrounds. See Administrator \ Video \ Theme for more detail.



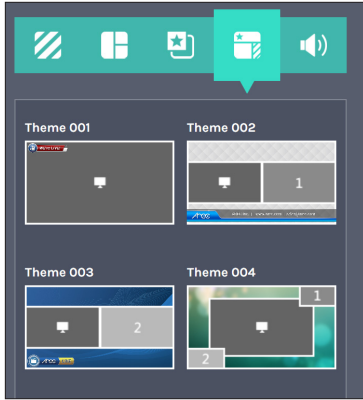
2.2.1.2 Layout

There are layout templates which are factory default layouts and pre-defined into four groups. User can apply layout to the live view window, recording session, and web streaming all at once. Click the layout template to select the desired layout.



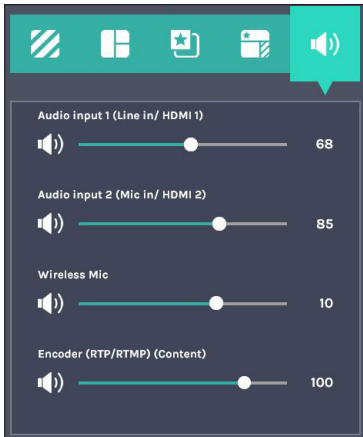
2.2.1.3 Overlay

KL-3 by factory default provides one plain black overlay and three user-configurable overlays. Click the overlay thumbnail to apply it to the video. See Administrator \ Video \ Theme for more details.



2.2.1.4 Theme

Theme is integrated with "Overlay", "Background" and "Layout". KL-3 by factory default provides themes by different overlays, backgrounds and layouts. See Administrator \ Video \ Theme for more details.










2.2.1.5 Volume control

The audio control bar is to adjust the recorded volume from each audio input and adjust the output volume. Adjustable range of sound input is 0-125, AREC wireless microphone 0~15.

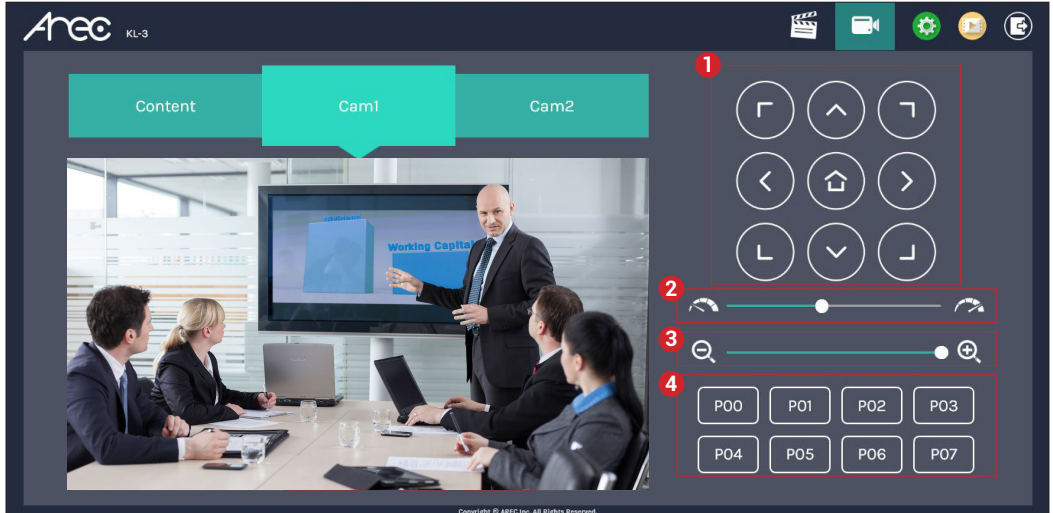
2.2.1.6 Recording/ Streaming control and Snapshot buttons

Buttons are:

	Streaming setting	When administrator streaming setting Together with recording
	Live streaming	KL-3 live broadcast
	Streaming	Streaming on/off (When administrator streaming setting Enable streaming button)
	Record	Click Record and recording begins. The Record button is red to indicate active recording.
	Pause	Click Pause to pause recording. The preview and the output video are also suspended while recording is paused. To resume recording, click Record.
	Stop	Click Stop to end a recording
	Snapshot	Screen shot of the preview. When not recording, the picture will be placed in the snapshot folder of the internal hard drive or front USB, and will appear in the Video Manger. When recording, the picture will be placed in the data set of the video(see 3.1.4 NO.6), and when the snapshot is taken, the bookmark will be automatically added.

2.2.2 Visual Sources Monitoring

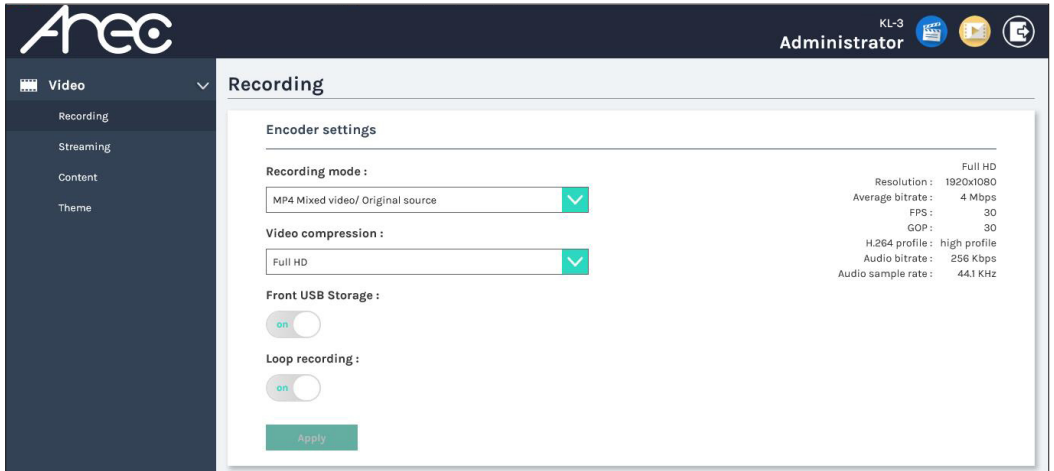
It makes easy for user to control and monitor each video input. Click the tab with the video input name on it to switch the monitoring window. In the case of a PTZ camera, the direction control panel, zoom in/out control bar, and up to 8 preset positions are enabled.



1. Direction control panel: Click the arrow buttons to move the camera.
2. Movement speed: Move leftward or rightward to set slower or faster the camera is moving.
3. Zoom in/out: Click the buttons or drag on the control bar.
4. Preset positions: Click the buttons to command that the camera go to the preset position.

2.2.3 Recording/Streaming setup

The page provides user to change settings for recording, streaming, content and theme.




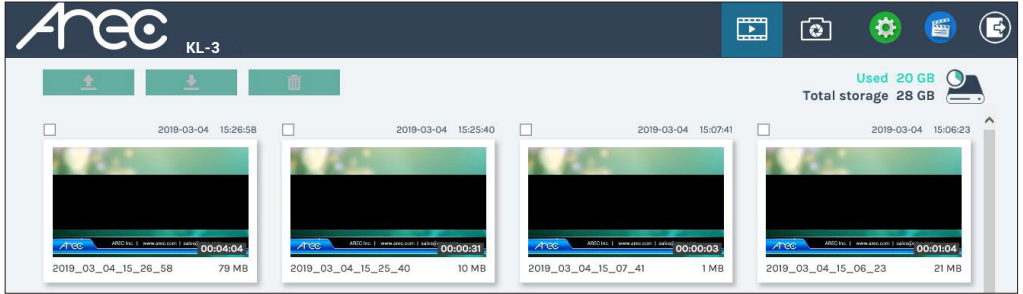
Recording	Configure Encoder settings and Bookmark settings for recording.
Streaming	Configure Encoder settings for streaming.
Content	Edit the information of the content that will be recorded.
Theme	Set the overlay files, background images and theme types.

The detail functions, please refer to 1.2 Video

Chapter 3 Video Manager

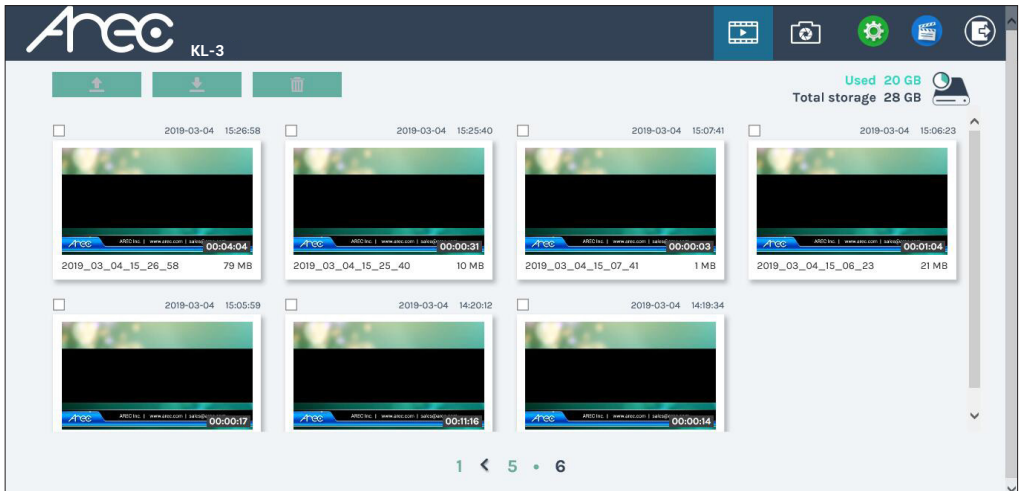
The KL-3 embedded Video Manager provides access to recordings produced by KL-3 itself and stored in the internal -storage drive or USB. The video and Snapshot lists are in descending order by the time of occurrence.

Entering the Video Manager webpage via [Administrator][Online Director] by clicking the  button; or log in Video Manager from the initial login page with default username video and password video.




3.1 Video Management





The Video Manager includes the following features:upload, download, delete, playback the recording and edit the recording information.




3.1.1 Upload the recording

Select the desired recording and click  to add it in the upload queue. The upload destination is pre-configured by system administrator. See [Administrator\ Upload](#) for more details. The KL-3 arranges the upload sequence automatically and indicates the upload status/result on the corresponding recordings. The following indicators are used:



Icon	Upload Status
	The recording package are uploaded successfully.
	The recording upload is failed.
	The recording is in the upload queue.
	The recording is uploading at this moment.

3.1.2 Download the recording


Select the desired recording and click . Select Save if offered the choice to Open or to Save the package. The recording packages are downloaded to your computer included mp4 file and dataset file. These are typically saved to the default download location used by your browser.

The recording package may contain more than one .mp4 files if that is recorded in MP4 Mixed video/ Original source recording mode.

To separately download the files in the recording packages, click on the recording thumbnail and access those in the Content information page.

3.1.3 Delete the recording

Recording packages can be deleted manually to make room for new recordings.

Select the recording and click . A confirmation dialog box opens asking you to confirm the deletion. Click Confirm to permanently remove the recording packages. The list may not update immediately. Refresh the list by reloading this webpage.

3.1.4 Playback the recording

Click on the desired recording and you will be directed to the content information page. Use the player controls at the bottom of the window to watch the video.

There might be more than one files listed under the window if the content is recorded in MP4 Mixed video/ Original source recording mode. Select the video for playback by clicking on the image of the desired one.

The file size being download is shown within the button.

The title used for Mixed video is "Movie", and those for Original source(s) are the name of the corresponding video input(s); by default are Content, Cam 1 and Cam 2. To separately download MP4 Mixed video/ Original source files, select the desired file and click Download.

1. Title of the video file being played
2. Recording date and time
3. Edit the content fields
4. Playback window
5. Playback controls

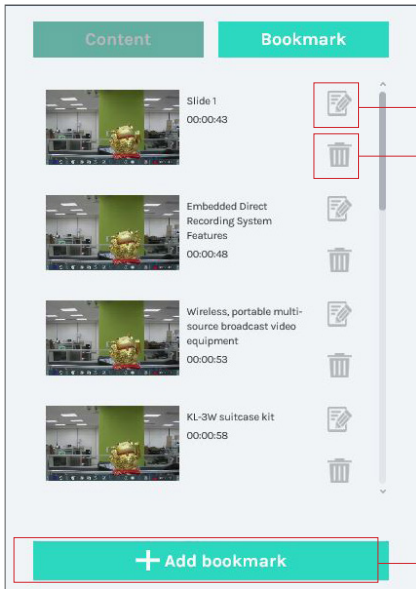
6. Video files and data set (files containing metadata, thumbnail images, and bookmarks.)
7. HTML file and thumbnail images
8. Download button

3.1.5 Edit the recording information

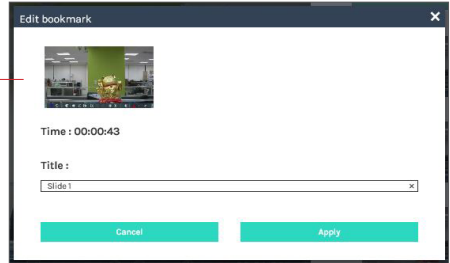
If you require to edit the information of a recording, click on the desired recording and you will be directed to the content information page. Replace the existing text or enter new information in the content fields. Click APPLY to save the changes.

3.1.6 Edit the bookmark information

If you require to edit the bookmark of a recording, click on the desired recording and you will be directed to the Bookmark page.

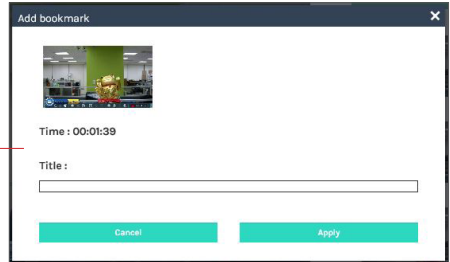


1. Edit the bookmark title.



2. Delete the bookmark

3. Add new bookmark with title.




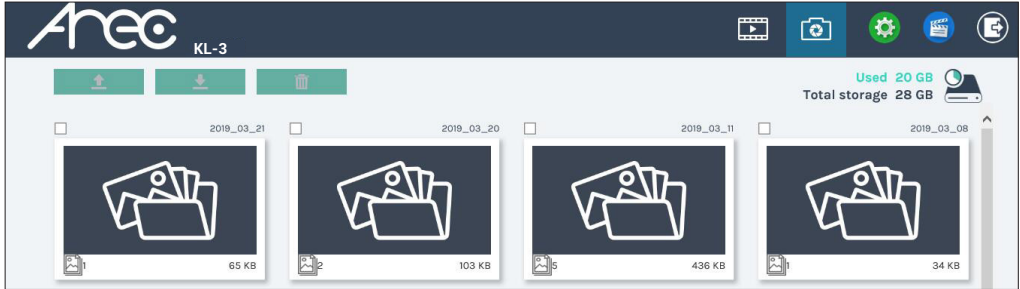
3.2 Snapshot Management





The Snapshot Manager includes the following features:upload, download, delete, preview.




3.2.1 Upload the photo

Select the desired photo folder and click  to add it in the upload queue. The upload destination is pre-configured by system administrator. See Administrator\ Upload for more details. The KL-3 arranges the upload sequence automatically and indicates the upload status/result on the corresponding folders. The following indicators are used:



Icon	Upload Status
	The file package are uploaded successfully.
	The file upload is failed.
	The file is in the upload queue.
	The file is uploading at this moment.


3.2.2 Download the photo

Select the desired photo folder and click . Select Save if offered the choice to Open or to Save the package. The photo packages are downloaded to your computer. These are typically saved to the default download location used by your browser.

To separately download the photo in the folder, click on the folder thumbnail.

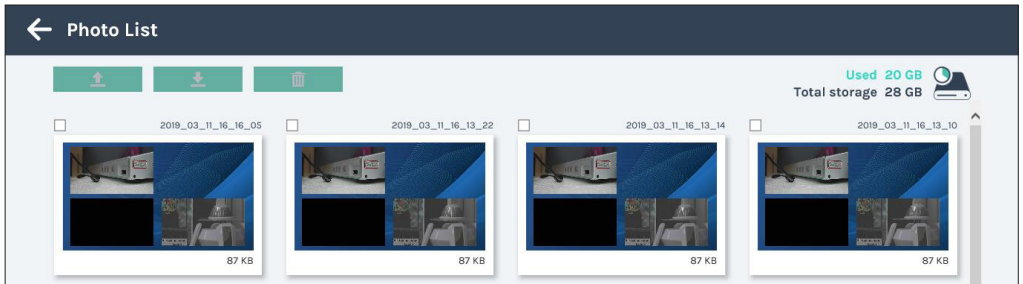
3.2.3 Delete the photo

Photo packages can be deleted manually to make room for new photos.

Select the folder and click . A confirmation dialog box opens asking you to confirm the deletion. Click Confirm to permanently remove the photo packages. The list may not update immediately. Refresh the list by reloading this webpage.

3.2.4 Preview the photo

Click on the desired photo folder and you will be directed to the photo list page.



Click on the desired photo to preview the photo.

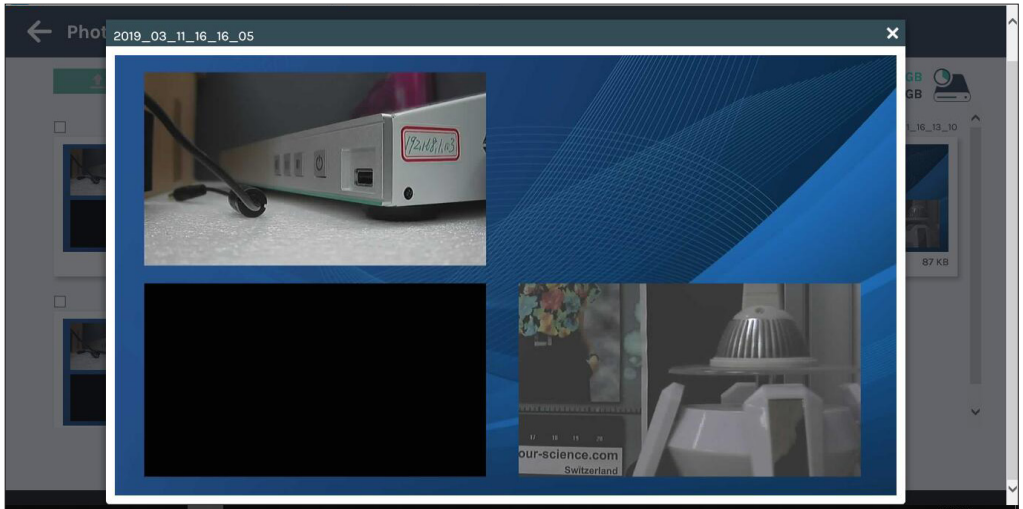












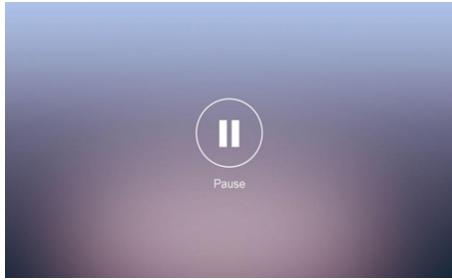


Table of On Screen Display Icons

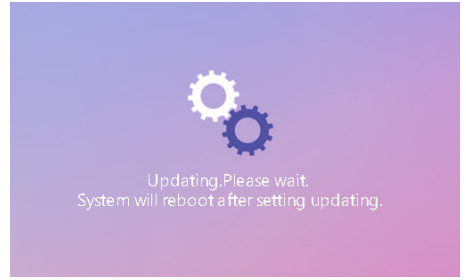
The KL-3 provides HDMI or VGA output for recording monitoring. On screen display there are event icons and sometimes the error operation warnings.



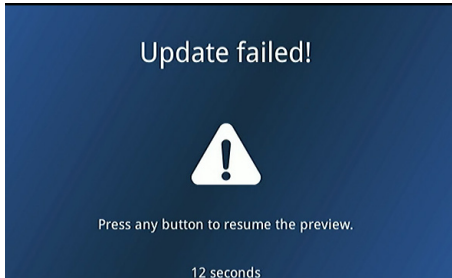
 <p>Disk full</p>	 <p>Network connection failure</p>	 <p>Wireless microphone connected</p>	 <p>Live Streaming Error</p>
 <p>Front USB recording error</p>	 <p>Operation is denied</p>	 <p>Front USB recording</p>	 <p>Disk failure</p>
 <p>Input no video</p>	 <p>Front USB drive mount</p>	 <p>Cancel one schedule recording</p>	 <p>Start one schedule recording</p>



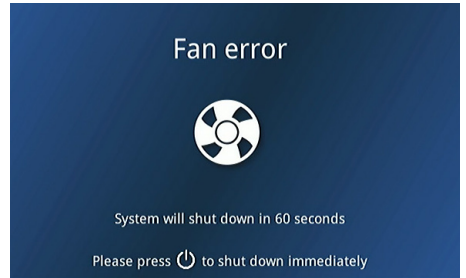
Recording is paused



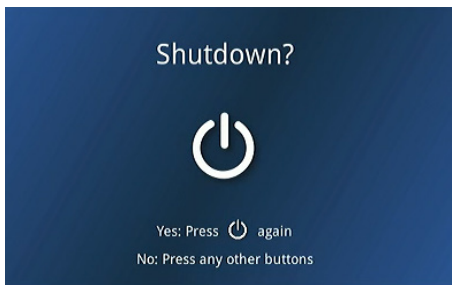
Firmware updating



Firmware update failure



Fan failure



Shutdown confirmation



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Version : 2.7

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